



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,247	12/27/2001	Nobuji Suzuki	NIS-12830	9442
7609	7590	03/12/2004	EXAMINER	
RANKIN, HILL, PORTER & CLARK, LLP 925 EUCLID AVENUE, SUITE 700 CLEVELAND, OH 44115-1405				ELKASSABGI, HEBA
ART UNIT		PAPER NUMBER		
		2834		

DATE MAILED: 03/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/034,247	SUZUKI ET AL.
	Examiner Heba Elkassabgi	Art Unit 2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 12/27/2001.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 5 and 6 is/are allowed.
- 6) Claim(s) 1-3 and 7-9 is/are rejected.
- 7) Claim(s) 4 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ . 12/27/01 | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 3 and 7 -9 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirohiko et al. (J.P. Patent 10-128692).

Hirohiko et al. discloses in figure #2 a motor two rotational position detecting sensor-equipped motors each including a motor stators (310/610) and a motor rotors (320/620), a revolving shafts (S1/S2) to which a motor rotor (320/620) is coupled, a bearing structure (130/160,230/240) for rotatably supporting a revolving shaft (S1/S2), and a rotational position detecting sensor (4110/7110) for detecting a rotational position of a revolving shaft (S1/S2). The rotational position detecting sensor equipped motors are combined with each other so as to permit revolving shafts (S1/S2) to be concentric with each other. A motor frame (MF) including first and second side walls (140) that are fixed on both sides in an axial direction of a fixing shaft (S1/S2); a first revolving shaft (S1) and a second revolving shaft (S2) positioned between a first side wall and second side wall (SW) and arranged concentrically with a fixing shaft (S1/S2) through a first bearing structure (130/160) and a second bearing structure (230/240). The first and second revolving shafts (S1/S2) are arranged so as to be aligned with each other in the

axial direction. The first and second rotation frames (140/170) are fixed on a first and second rotation shafts (S1/S2). Respectively; a first rotational position detecting sensor (4110) including a first sensor rotor (42) provided on the first revolving shaft (S1) and first rotation frame and a first sensor stator (310) arranged on a first side wall so as to correspond to a first sensor rotor (40) and functioning to detect a rotational position of a first revolving shaft (S1); a first motor section including a first motor rotor (320) provided on the other of a first revolving shaft (S1) and first rotation frame and a first motor stator (61) provided on first side wall so as to correspond to a first rotor (42) and functioning to apply rotational force to a first revolving shaft (S1); a second rotational position detecting sensor (7110) including a second sensor rotor (70) provided on one a second motor revolving shaft (S2) and rotation frame (170) and a second sensor stator (610) provided on a second side wall so as to correspond to a sensor rotor (70) and functioning to detect a rotational position of a second revolving shaft (S2); a second motor section including a second motor rotor (70) provided on the other of a second revolving shaft (S2) and second rotation frame (170) and a second motor stator (610) provided on a second side wall so as to correspond to a second motor rotor (70) and functioning to apply rotational force to a second revolving shaft (S2); a first bearing structure (130/160),and a first revolving shaft (S1). One of the first rotational position detecting sensor (4110) and first motor section (140), and the other of a first rotational position detecting sensor (4110) and first motor (140) being arranged so as to be aligned with each other outwardly in a radial direction of a fixing shaft (S1), resulting in constituting a first rotational position detecting sensor-equipped motor with a second

bearing structure (230). The second revolving shaft (S2), one of a second rotational position detecting sensor (7110) and second motor section (170). The second rotational position detecting sensor (7110) and second motor (170) are arranged so as to be aligned with each other outwardly in a radial direction of a fixing shaft (S2), resulting in constituting a second rotational position detecting sensor-equipped motor. A first output plate (34) arranged so as to extend outwardly in a radial direction of first revolving shaft (S1) from a space defined between first rotational position detecting sensor-equipped motor and a second rotational position detecting sensor-equipped motor. A first output plate (34) is fixed on a first revolving shaft (S1) of a first rotational position detecting sensor-equipped motor and a first rotation frame, to thereby be rotated with a first revolving shaft (S1); and a second output plate (64) arranged so as to extend outwardly in a radial direction of a second revolving shaft (S2) from the space. The second output plate (64) is fixed on a second revolving shaft (S2) of a second rotational position detecting sensor-equipped motor and a second rotation frame, to thereby be rotated with a second revolving shaft (S2).

Allowable Subject Matter

Claims 4, 5-6 are allowed.

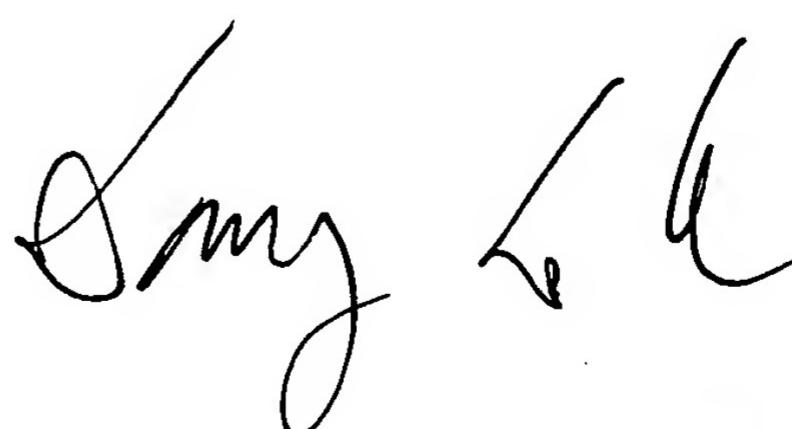
Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Dependent claim 4 and Independent claim 5 is allowed over the prior art which does not disclose a bearing bushing that is arranged concentrically with one revolving shaft and a fixed motor frame in combination

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heba Elkassabgi whose telephone number is (571) 272-2023. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Heba Y. Elkassabgi



DANG LE
PRIMARY EXAMINER